

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/25/00
Date Received: 02/17/00
Project: Metro KC Grab, PO# M63597
Date Extracted: 02/17/00
Date Analyzed: 02/17/00

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Chromium</u> | <u>Copper</u> | <u>Nickel</u> | <u>Zinc</u> |
|-----------------------------------|-----------------|---------------|---------------|-------------|
| M63597 002095-01 | 0.97 | 0.80 | 1.03 | 0.12 |
| Method Blank | <0.05 | <0.05 | <0.05 | <0.05 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/25/00

Date Received: 02/17/00

Project: Metro KC Grab, PO# M63597

**QUALITY ASSURANCE RESULTS
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 002095-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | Relative Percent Difference | Acceptance Criteria |
|----------|-----------------|---------------|------------------|-----------------------------|---------------------|
| Chromium | mg/L (ppm) | 0.97 | 0.94 | 3 | 0-20 |
| Copper | mg/L (ppm) | 0.80 | 0.91 | 22vo | 0-20 |
| Nickel | mg/L (ppm) | 1.03 | 1.03 | 0 | 0-20 |
| Zinc | mg/L (ppm) | 0.12 | 0.11 | 9 | 0-20 |

Laboratory Code: 002095-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | % Recovery MS | % Recovery MSD | Acceptance Criteria | RPD |
|----------|-----------------|-------------|---------------|---------------|----------------|---------------------|-----|
| Chromium | mg/L (ppm) | 5 | 0.97 | 94 | 88 | 80-120 | 7 |
| Copper | mg/L (ppm) | 5 | 0.85 | 89 | 89 | 80-120 | 0 |
| Nickel | mg/L (ppm) | 10 | 1.03 | 92 | 92 | 80-120 | 0 |
| Zinc | mg/L (ppm) | 5 | 0.12 | 94 | 97 | 80-120 | 3 |


Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | % Recovery LCS | % Recovery LCSD | Acceptance Criteria | RPD |
|----------|-----------------|-------------|----------------|-----------------|---------------------|-----|
| Chromium | mg/L (ppm) | 5 | 106 | 102 | 80-120 | 4 |
| Copper | mg/L (ppm) | 5 | 103 | 95 | 80-120 | 13 |
| Nickel | mg/L (ppm) | 10 | 109 | 104 | 80-120 | 5 |
| Zinc | mg/L (ppm) | 5 | 112 | 106 | 80-120 | 6 |



vo - The value reported fell outside of control limits established for this analyte.

CJ 2.17.00 AI

002095

| | | | | | |
|---|--|---------------|--|------------------|--|
| SITE NO. | | PROJECT NAME | | PURCHASE ORDER # | |
| 7238 | | metro KC Grab | | m63597 | |
| SAMPLES (signature) | | | PROJECT LOCATION | | |
|  | | | 3200 6th Ave S. | | |
| REMARKS | | | SAMPLE DISPOSAL INFORMATION | | |
| Please Rush ASAP. 24 hr Phone with Results. | | | <input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions | | |

[illegible]

| SIGNATURE | PRINT NAME | COMPANY | Date | Time |
|---|--------------------|---------|---------|--------|
| Relinquished by:  | Gerald A. Thompson | ACW | 2/27/00 | 1:25pm |
| Received by:  | Charlene Jensen | FBI | 2-17-00 | 1:35pm |
| Relinquished by: | | | | |
| Received by: | | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

February 25, 2000

DUPLICATE COPY

INVOICE #00ACU0225-1

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro KC Grab, PO# M63597 - Results of testing requested by Gerry Thompson for material submitted on February 17, 2000.

1 sample analyzed for Total Chromium,
Copper, Nickel, and Zinc
by Method 6010 @ \$80 per sample

\$ 80.00

Amount Due

\$ 80.00

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

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Seattle, WA 98119-2029
TEL: (206) 285-8282
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February 25, 2000

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

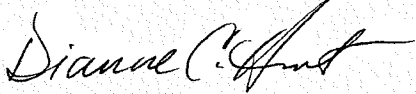
Dear Mr. Thompson:

Included are the results from the testing of material submitted on February 17, 2000 from your Metro KC Grab, PO# M63597 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Dianne C. Hurt
Project Manager

Enclosures
ACU0225R.DOC